# Bao-Jhih Shao

Houston, TX, USA

Portfolio: https://chrisbj4.com/
Github: https://github.com/bjchris32

## Technical Skills

- Programming Languages: Typescript, Ruby, Golang, Python, Java
- Backend Frameworks: NodeJS, Ruby on Rails, GraphQL, Sidekiq, Redis, ElasticSearch
- Frontend Frameworks: NextJS, ReactJS, TailwindCSS, MaterialUI, Hotwire, JQuery, Ajax
- Databases: MongoDB, MySQL, PostgreSQL, DynamoDB
- Cloud Management: AWS(S3, Lambda, Cloudwatch), Kubernetes(CKAD), Docker, Terraform

## Work History

**UTHealth**                                                                 Houston, TX, US
*Scientific Programmer*                                             *Apr. 2024 - present*
- Enabled comment and notification modules for 300 users to improve grant review workflows
- Enhanced dev environment and CI/CD pipeline with Docker, achieving 95% test coverage

**Snapsheet**                                                                   Chicago, IL, US
*Software Engineer Intern*                                       *May. 2023 - Aug. 2023*
- Implemented Ruby on Rails and React project to enhance user training team's efficiency
- Streamlined diverse data preparation with Sidekiq to enhance internal user experiences

**Shopline**                                                                      Taipei, Taiwan
*Software Engineer*                                                  *Jul. 2018 - Jul. 2022*
- Improved server performance in product category page(>10k rps) with Flame Graph and enhanced it by more than 66% using memoization technics when loading data in server
- Decoupled checkout process, accelerating the order checkout system by 30% with Sidekiq
- Increased maintainability in 3rd party payments with AWS Lambda for at least 100k DAU
- Integrated FaceBookAPI in image system and promoted 10k clients to upgrade subscription

**Otto Software Partner**                                                Taipei, Taiwan
*Programmer*                                                          *Aug. 2016 - Apr. 2018*
- Integrated Jenkins into development flow to propelled the test coverage increase by 10%
- Acquired test-driven development skills using minitest and boost development efficiency
- Mentored three colleagues to onboard in daily e-commerce development process

## Side Projects & Class Projects

Habicize | GITHUB: https://github.com/bjchris32/habicise                *Jul 2024 - present*
- Developed a full-stack MERN application in TypeScript, encouraging users to cultivate habits
- Integrated Docker for containerized MERN services, streamlining dev and CI/CD workflow

ML in Audio | GITHUB: https://github.com/bjchris32/artificial-intelligence-lab        *Jan 2023 - May 2023*
- Fulfilled speech tagging using Hidden Markov Model(HMM) based on Verterbi algorithm
- Identified music pieces with retrieval model based on Shazam music recognition algorithm

## Education

**University of Illinois at Urbana-Champaign**                Champaign, Illinois
*Master of Computer Science*                                      *Aug.2022 - Dec 2023*

**National Chung Hsing University**                             Taichung City, Taiwan
*Bachelor of Computer Science and Engineering*      *Aug. 2012 - Jun. 2016*